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# Short neuropeptide F in integrated insect physiology

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**Key words: Insect neuropeptides, Invertebrate neurobiology, Short neuropeptide F, sNPF, Feeding, Neurohormones**

# *Research Summary*

**This review mainly focused on the current knowledge on the role of short neuropeptide F (sNPF) in regulation of insect physiology with emphasis on:**

- **Feeding**
- **Reproduction**
- **Development**
- **Locomotor activity**
- **Cicardian clock**

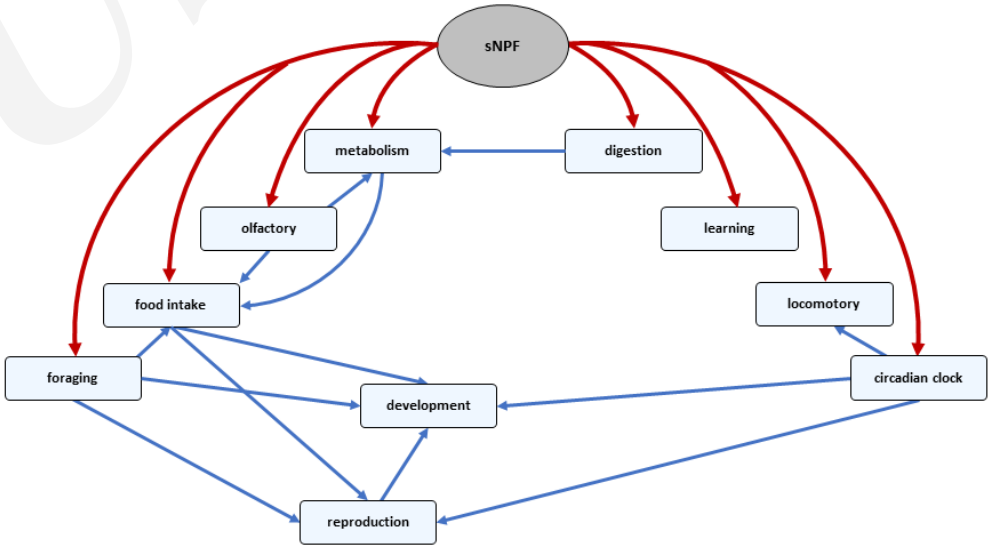



Figure 4

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# *Innovation points*

- **Introduction** of the short neuropeptide F precursor structure, receptor structure and cell dowstream signaling

- **Summary** of the most updated information on involvement of sNPF in regulation of insect physiology

- **Emphasis** of the physiological processes directly and indirectly regulated by sNPF

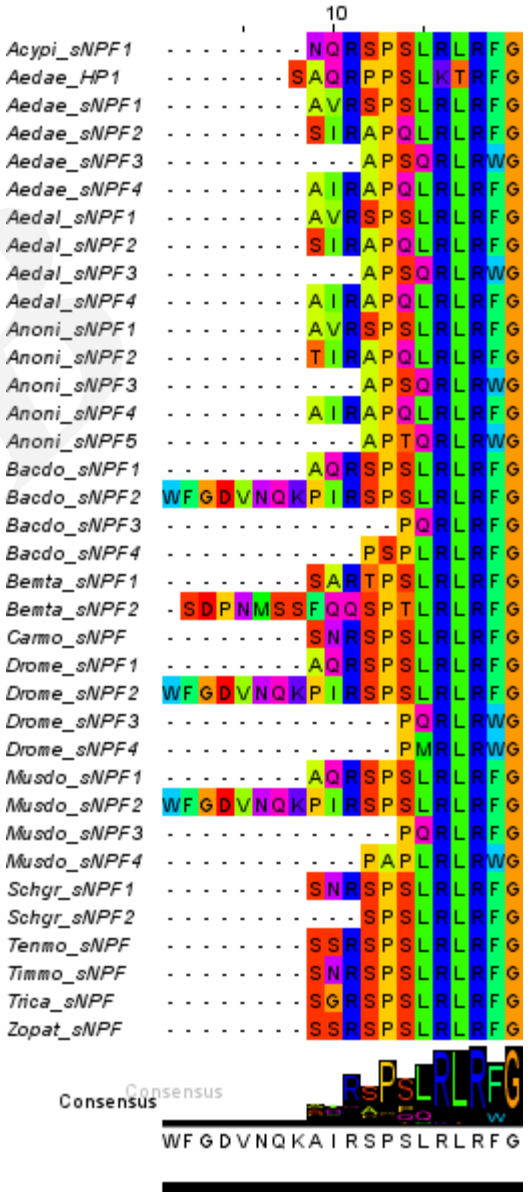



Figure 2

# *Innovation points*

**A series of comprehensive figures and tables were generated to summarize the latest knowledge about sNPF neuropeptides.**

**Table 1 | Summary of the physiological functions of sNPF in various insect species.**

**Figure 1 | Alignment of sNPF precursor sequences from different insect species.**

**Figure 2 | Alignment of mature sNPF peptides from different insect species.**

**Figure 3 | Phylogenetic tree of sNPF receptors of selected insect species.**

**Figure 4 | Possible involvement of sNPF in the regulation of various physiological processes in insects.**

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